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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
Patent Application

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Inventor(s): Gina C. Eubanks

Title: INTERNET STRAWMAN AND USER INTERFACE THEREFOR

The Commissioner of Patents and Trademarks
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Sir:

Transmittal of a Patent Application
(Under 37 CFR §1.53)

Transmitted herewith is the above identified patent application, including:

- Specification, claims and abstract, totaling 42 pages.
- Formal drawings, totaling pages.
- Informal drawings, totaling 7 pages.
- Declaration and Power of Attorney.
- Information Disclosure statement.
- Form 1449
- Assignment(s)
- Assignment Recordation Form (duplicate)
- Preliminary Amendment

FEES DUE

The fees due for filing the specification pursuant to 37 C.F.R. § 1.16 and for recording of the Assignment, if any, are determined as follows:

CLAIMS					
	NO. OF CLAIMS		EXTRA CLAIMS	RATE	FEES
Basic Application Fee					\$690.00
Total Claims	28	Minus 20=	8	X \$18 =	\$144.00
Independent Claims	3	Minus 3=	0	X \$78=	\$0.00
If multiple dependent claims are presented, add \$260.00					\$0.00
Add Assignment Recording Fee of \$40.00 If Assignment document is enclosed					\$40.00
TOTAL APPLICATION FEE DUE					\$874.00

PAYMENT OF FEES

The full fee due in connection with this communication is provided as follows:

1. Not enclosed

No filing fee is to be paid at this time.

2. Enclosed

Filing fee

Recording assignment

Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached

For processing an application with specification in a non-English language

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The Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No.: 23-0085. A duplicate copy of this authorization is enclosed.

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This application is filed pursuant to 37 C.F.R. § 1.53 in the name of the above-identified Inventor(s).

Please direct all correspondence concerning the above-identified application to the following address:

WAGNER, MURABITO & HAO LLP
Two North Market Street, Third Floor
San Jose, California 95113
(408) 938-9060

This transmittal ends with this page.

Respectfully submitted,

Date: 09/14/2000

By: _____

Patrick W. Ma
Reg. No. 44,215

SONY-50P3806

UNITED STATES PATENT APPLICATION FOR

INTERNET STRAWMAN
AND USER INTERFACE THEREFOR

Inventor:

Gina C. Eubanks

Prepared by:

WAGNER, MURABITO & HAO LLP

TWO NORTH MARKET STREET

THIRD FLOOR

SAN JOSE, CALIFORNIA 95113

(408) 938-9060

Confidential

INTERNET STRAWMAN AND USER INTERFACE THEREFOR

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BACKGROUND OF THE INVENTION

FIELD OF THE INVENTION

The present invention relates to the design of user interface in the context of electronic commerce. More specifically, the present invention pertains to a system and method for implementing an intermediary to preserve user privacy and anonymity in electronic transactions.

RELATED ART

In recent years, electronic commerce (e-commerce) has evolved to become an important part of modern commerce. New electronic storefronts spring up on the Internet daily, and many traditional sellers also have established their presence on the Internet or have plans to do in the near future. By way of background, the Internet is a worldwide collection of computer networks and gateways that generally use the TCP/IP suite of protocols to communicate with one another. The Internet allows easy access to media and data from a variety of sources, and is capable of delivering such information to users wherever they may be. Over the past few years, the Internet has experienced vast commercialization and has evolved into a worldwide information super-highway and database, containing information on every subject known to humankind.

The most prevalent and popular aspect of the Internet is the World Wide Web (also called the "Web"). The Web is an Internet facility that allows a server computer system (e.g., a Web server or a Web site) to send Web documents, commonly known as Web pages, to a remote client computer system. The

5 remote client computer system can then display the Web documents using a Web browser. Typically, a Web page contains links (hyperlinks) that let users jump from page to page whether the pages are stored on the same server or on different servers around the world.

10 The Web has become the center of Internet activity since, among other reasons, Web pages, containing both text and graphics, provide a user-friendly graphical interface to the Internet. The Web is also conducive for conducting e-commerce. Many Web servers have been developed through which on-line vendors (e-vendors) can advertise and sell products and services. Some e-

15 vendors provide an on-line catalog listing the items that are available. A user may browse through the on-line catalog using a browser and select various items that he/she desires to order. Typically, when the user has finished selecting the items, he/she is then prompted to enter his personal information, such as credit card information, shipping address, etc., so as to complete the

20 ordering process. The Web server then confirms the order by sending a confirmation Web page to the client computer and schedules shipment of the ordered items.

Nevertheless, many consumers feel uneasy or are even unwilling to engage in these on-line transactions due to the lack of anonymity. More particularly, during an electronic transaction, information about the transaction (e.g., items ordered) as well as information of a personal nature (e.g., name,

address, credit card number of the consumer) are typically and necessarily sent to the vendor. While aggregating such information may be invaluable to the vendors for various purposes, such as using the information to track the buying habits of consumers and/or directing targeted advertising to them, the majority 5 of consumers prefer to remain anonymous in on-line transactions so that their privacy can be better preserved. Thus, it would be advantageous to provide a mechanism by which electronic transactions can be consummated without having to compromise the identity of individual consumers.

10 Another problem exists for consumers who patronize multiple e-vendors. Typically, each e-vendor requires a patron to establish a personal profile or account (e.g., setting up a user name and password) before a transaction can be entered into. The process of establishing such a profile or account must generally be repeated for each and every e-vendor that the consumer deals 15 with as different e-vendors are usually not affiliated with one another and thus each maintains its own user accounts. Since these multiple accounts are created separately at different entities, more often than not they have different attributes, such as user names and passwords. Even where the consumer is allowed to choose his/her own user name, it is unlikely that the same user name 20 can be had at the various e-vendors because a desired name is often already taken by another consumer. The situation is even less desirable where the e-vendor's system arbitrarily assigns a user name that does not bear any meaning to the consumer.

25 Due to the above reasons, an individual consumer who patronize multiple e-vendors must therefore remember all of his/her user names and their respective passwords as well as which e-vendor's Web site they each

corresponds to in order to access those sites to transact business. As such, apart from being unable to remain anonymous as described above, it is also very cumbersome, confusing and inconvenient for the consumer to have to manage numerous unrelated and sometime convoluted user names and

5 passwords. Therefore, it would be very beneficial to have a mechanism whereby the consumer can conveniently transact business with multiple e-vendors without having to deal with numerous unrelated user names and passwords for accessing individual Web sites and to do so anonymously.

10 A different but related problem presents itself for consumers who patronize multiple e-vendors. Since each e-vendor maintains its own user accounts, a consumer who conducts business with multiple e-vendors would receive separate transaction statements and correspondence (e.g., billing statements, order confirmations, etc.) from each individual e-vendor. The large

15 volume of records and correspondence generated would quickly become cumbersome and unwieldy for the consumer to manage. Therefore, it would be advantageous to provide a mechanism that helps the consumer avoid having to handle vast amounts of records and correspondence from different e-vendors with whom the consumer transacts business.

20 Furthermore, it is appreciated that compatibility is essential in developing an interfacing mechanism. More specifically, different e-vendors are likely to set up different electronic storefronts (e.g., different Web site layout and navigation) in an e-commerce environment. Thus, it would be desirable to provide an

25 interfacing mechanism for consumers to conveniently transact business with multiple e-vendors without compromising the individual consumer's identity and without the need to maintain numerous user names, passwords or transaction

records such that the mechanism is compatible and applicable to differing Web sites that are present in the e-commerce environment.

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SUMMARY OF THE INVENTION

It would be advantageous to provide a mechanism by which electronic transactions can be consummated without having to compromise the identity of individual consumers. Furthermore, it would also be advantageous for such a mechanism to allow the consumer to conveniently transact business with multiple e-vendors without the need to manage numerous unrelated user names and passwords or vast amounts of transaction records. Additionally, it would be desirable to provide a mechanism that is compatible and applicable to different Web sites that are present in the e-commerce environment.

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Accordingly, the present invention provides a system and method for implementing an intermediary to preserve user privacy and anonymity in electronic transactions. By so doing, embodiments of the present invention promote broad consumer acceptance and participation in electronic transactions because of the added assurance that their personal information are better protected. Moreover, embodiments of the present invention greatly simplify the management of user names, passwords as well as record-keeping for on-line consumers by allowing each consumer to establish a single subscriber account through which transactions with different e-vendors can be conducted. Furthermore, embodiments of the present invention can be used to transact business at a wide spectrum of e-commerce Web sites which have different layouts and navigation paradigms, thereby providing a ubiquitous solution for the subscribing consumer. These and other advantages of the present invention not specifically mentioned above will become clear within discussions of the present invention presented herein.

More specifically, in one embodiment of the present invention, In one embodiment, a computer implemented method for facilitating a transaction between a subscriber and a vendor through an intermediary is provided. In this embodiment, the method comprises the step of receiving at the intermediary 5 personal information from the subscriber to establish a user account. The method also comprises the step of storing the personal information for subsequent access. The method further comprises the step of receiving a request from the subscriber to access the user account, upon which the subscriber's identity is verified by the intermediary against the personal 10 information. The method also comprises the step of the intermediary entering into a transaction with the vendor on behalf of the subscriber based on the subscriber's instruction once the subscriber's identity is successfully verified. The method further comprises the step of notifying the subscriber upon completion of the transaction. Importantly, the transaction is completed without 15 disclosing the subscriber's personal information to the vendor. As such, the consumer remains anonymous with respect to the vendor. In a specific embodiment, the present invention includes the above steps and further includes the step of preparing an account activity statement for the subscriber. In one embodiment, the present invention includes the above and further 20 includes the step of receiving at the intermediary an item ordered from the vendor on behalf of the subscriber based on the subscriber's instruction, as well as the step of billing the subscriber for services rendered.

Embodiments of the present invention include the above steps and 25 further comprise the step of receiving at the intermediary a post-delivery request about the item from the subscriber, and the step of handling the post-delivery request on behalf of the subscriber. Particularly, in a currently preferred

embodiment, such a post-delivery request can be a return request, a repair request, an exchange request, a warranty submission request, or a rebate request.

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BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying drawings, which are incorporated in and form a part of this specification, illustrate embodiments of the invention and, together with 5 the description, serve to explain the principles of the invention:

Figure 1 is a schematic illustration of an exemplary computer system with which embodiments of the present invention can be implemented.

10 Figure 2 is a block diagram illustrating an exemplary client-server environment in which embodiments of the present invention can be practiced.

Figures 3A, 3B, 3C and 3D are diagrams illustrating exemplary screen shots as observed by a consumer-subscriber during various stages of a 15 transaction with a vendor through an intermediary in accordance with one embodiment of the present invention.

Figure 4 is a flow diagram illustrating steps for facilitating a transaction between a consumer-subscriber and a vendor through an intermediary in 20 accordance with one embodiment of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

Reference will now be made in detail to the preferred embodiments of the invention, examples of which are illustrated in the accompanying drawings.

While the invention will be described in conjunction with the preferred 5 embodiments, it will be understood that they are not intended to limit the invention to these embodiments. To the contrary, the invention is intended to cover alternatives, modifications and equivalents, which may be included within the spirit and scope of the invention as defined by the appended claims.

Furthermore, in the following detailed description of the present invention, 10 numerous specific details are set forth in order to provide a thorough understanding of the present invention. However, it will be clear to one of ordinary skill in the art that the present invention may be practiced without these specific details. In other instances, well known methods, procedures, components, and circuits have not been described in detail as not to 15 unnecessarily obscure aspects of the present invention.

The following description of the present invention will begin with a description of the notation and nomenclature used in the present application and an exemplary configuration of a general purpose computer system on 20 which embodiments of the present invention may be practiced. This description will then be followed by a detailed description setting forth the operation of the present invention.

NOTATION AND NOMENCLATURE

Some portions of the detailed descriptions which follow are presented in terms of procedures, steps, logic blocks, processing, and other symbolic representations of operations on data bits within a computer memory. These 5 descriptions and representations are the means used by those skilled in the data processing arts to most effectively convey the substance of their work to others skilled in the art. A procedure, computer executed step, logic block, process, etc., is here, and generally, conceived to be a self-consistent sequence of steps or instructions leading to a desired result. The steps are those 10 requiring physical manipulations of physical quantities to achieve tangible and useful results. Usually, though not necessarily, these quantities take the form of electrical or magnetic signals capable of being stored, transferred, combined, compared, and otherwise manipulated in a computer system. It has proved convenient at times, principally for reasons of common usage, to refer to these 15 signals as bits, values, elements, symbols, characters, terms, numbers, or the like.

It should be borne in mind, however, that all of these and similar terms are to be associated with the appropriate physical quantities and are merely 20 convenient labels applied to these quantities. Unless specifically stated otherwise as apparent from the following discussions, it is appreciated that throughout the present invention, discussions utilizing terms such as “receiving”, “storing”, “entering”, “notifying” or the like, refer to the action and processes of a computer system (e.g., Figure 1), or similar electronic computing 25 device, that manipulates and transforms data represented as physical

(electronic) quantities within the computer system's registers and memories into other data similarly represented as physical quantities within the computer system memories or registers or other such information storage, transmission or display devices. The present invention is also well suited to the use of other computer systems such as, for example, optical and mechanical computers.

COMPUTER SYSTEM ENVIRONMENT

Figure 1 illustrates an exemplary computer system 100 used in accordance with embodiments of the present invention. Within the following discussions of the present invention, certain processes and steps are discussed that are realized, in certain embodiments, as a series of computer-readable and computer-executable instructions (e.g., process 300 as illustrated in Figure 3) that reside, for example, in computer-readable media of computer system 100 and executed by processor(s) of computer system 100. When executed, the instructions cause computer system 100 to perform specific actions and exhibit specific behavior which is described in detail below. It is appreciated that computer system 100 of Figure 1 is exemplary only and that the present invention can operate within a number of different computer systems including general purpose computer systems, embedded computer systems, and other computer systems specially adapted for transaction processing. Moreover, although not shown in Figure 1, other modules and components can also be present in computer system 100 to perform various other functions that are not related to implementing an intermediary for facilitating a transaction between a subscriber and a vendor and thus are not within the scope of the present invention.

Computer system 100 of Figure 1 includes an address/data bus 102 for communicating information, and a central processor unit (CPU) 104 coupled to bus 102 for processing information and instructions. Within the scope of the

5 present invention, processor 104 can be a specialized processor that is optimized for transaction processing and/or network communications.

Computer system 100 also includes a signal input output communication device 112 (e.g., a modem, a network interface card (NIC)) coupled to bus 102 for interfacing with other computer systems over a communication network.

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Computer system 100 also includes data storage features such as a computer-usuable volatile memory 106 (e.g., random access memory (RAM)) coupled to bus 102 for storing information and instructions for central processor unit 104, computer-usuable non-volatile memory 108 (e.g., read only memory (ROM)) coupled to bus 102 for storing static information and instructions for central processor unit 104, and a data storage device 110 (e.g., a magnetic or optical disk and disk drive) coupled to bus 102 for storing information and instructions. Data storage device 110 can include one or more removable magnetic or optical storage media (e.g., diskettes, tapes) which are computer readable memories. Memory units of computer system 100 include 106, 108 and 110. It should be noted that aspects of the present invention may be implemented as a computer program running on computer system 100. Alternatively, aspects of the present invention may be embodied as a computer program stored on a computer-readable medium, such as volatile memory 106 or data storage device 110 (e.g., hard disk, floppy disk, etc.) In accordance with

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the present invention, signal input output communication device 112 can receive various incoming transaction requests.

Optionally, computer system 100 may also include an alphanumeric

5 input device 114 having alphanumeric and function keys and coupled to bus 102 for communicating information and command selections to central processor unit 104, a cursor control device 116 coupled to bus 102 for communicating user input information and command selections to central processor unit 104, and a display device 118 coupled to bus 102 for displaying

10 information (e.g., text, graphics images). Display device 118 of Figure 1, utilized with the present invention, may be a liquid crystal device (LCD), cathode ray tube (CRT), or other display device suitable for creating graphic images and alphanumeric characters recognizable to a user. Optional cursor control device 116 allows the computer user to dynamically signal the two dimensional

15 movement of a visible symbol (cursor) on a display screen of display device 118. Many implementations of cursor control device 116 are known in the art including a trackball, mouse, touch pad or joystick. Alternatively, it will be appreciated that a cursor can be directed and/or activated via input from alphanumeric input device 114 using special keys and key sequence

20 commands. The present invention is also well suited to directing a cursor by other means such as, for example, voice commands.

EXEMPLARY CLIENT-SERVER ENVIRONMENT
IN ACCORDANCE WITH EMBODIMENTS OF THE PRESENT INVENTION

With reference next to Figure 2, a block diagram illustrating an exemplary client-server environment 200 in which embodiments of the present invention can be practiced is shown. As illustrated, server systems 210 and 230 as well as client system 220 are coupled to a communication network 280 which, in a currently preferred embodiment, comprises the Internet. Within the scope of the present invention, an e-vendor hosts its Web site on server 210, while an intermediary, or a "strawman", provides its services using server 230. A consumer-subscriber accesses the e-vendor's Web site on e-vendor server 210 to browse and/or conduct a transaction (e.g., purchasing an item, conducting a financial transaction such as banking or stock trading) using client system 220.

In the context of the present invention, an intermediary is an organization or application that let consumers sign up as subscribers, who can then transact business with other entities electronically without revealing their identity to these entities. In effect, in accordance with the present invention, the intermediary acts as an escrow agent and a middleman in a transaction between a consumer-subscriber and a vendor in such a way that the vendor cannot identify or track the customer as an individual. As such, the privacy and anonymity of the consumer-subscriber is preserved.

It is appreciated that computer system 100 of Figure 1 can be used to implement e-vendor server 210, strawman server 230, and/or client system 220. Generally, though not necessarily, client system 220 is a personal computer (PC), whereas e-vendor server 210 and strawman server 230 are more

powerful computer systems with more hardware, software, and network resources.

As illustrated in Figure 2, e-vendor server 210 can include a database 213 and server software 211, while strawman server 230 can include a database 233 and server software 231. In accordance with the present invention, database 213 can store product description as well as other information for generating Web pages at the e-vendor's Web site, whereas database 233 can store information about the intermediary's subscribers (e.g., name, address, billing preferences, etc.). It is appreciated that such subscriber information can be stored in different databases on strawman server 230. Significantly, in accordance with the present invention, e-vendor server 210 (and hence the e-vendor) does not have access to database 233 or any additional databases on strawman server 230. Database 233 is completely separate from database 213 and is under the sole control of the intermediary. By acting as a middleman on behalf of a subscriber in transactions with a e-vendor in accordance with the present invention, the intermediary is able to completely shield the identity of the consumer-subscriber from the e-vendor. The present invention thus advantageously protects the privacy and anonymity of the consumer-subscriber.

Referring again to Figure 2, client system 220 includes client software 221. Client software 221 is an application program, such as a browser, a custom GUI (graphical user interface), etc., that allows a user to specify content requests (e.g., clicking on hyperlinks, entering a Universal Resource Locator

(URL) or, more generally, a Universal Resource Identifier (URI)) to a server (e.g., e-vendor server 210, strawman server 230) using a network protocol (e.g., various versions of Hypertext Transfer Protocol, such as HTTP or HTTPS, etc.)

The request is then handled by the server identified by the URI. Client software

- 5 221, server software 211 and 231 have specialized code that allows them to communicate via the chosen network protocol (e.g., in conventional systems the client is usually a browser whereas the server is a web-server). The server returns content as per the request parameters encoded in the URI. This content is delivered in a format that is well understood by client software 211 (e.g.,
- 10 Hypertext Markup Language (HTML), Extensible Markup Language (XML), Standard Generalized Markup Language (SGML), etc.) Upon receipt of the content by client software 211, the content is parsed into an internal data structure (e.g., an abstract syntax tree or graph). The internal data structure is then used to render the content on client software 211 in a human
- 15 understandable representation, such as text and graphic images.

It is appreciated that the content delivered by the server can include special processing instructions (e.g., get the content from another server via the URI associated with a hyperlink, etc.) Specifically, it is appreciated that Web

- 20 pages can include content that is stored locally (e.g., on the server hosting the requested Web page) or remotely (e.g., on a server other than the hosting server). As such, if the requested Web page contains URIs that point to another server, client software 221 would request those remote content from the other server. In other words, the hosting server and the other server need not
- 25 communicate directly even if the requested Web page includes remote content.

DESCRIPTION OF THE OPERATION OF
EMBODIMENTS OF THE PRESENT INVENTION

With reference still to Figure 2, in one embodiment of the present invention, e-vendor server 210, strawman server 230, as well as client 220 are coupled to the Internet 280. Using client software 221 on client 220, a customer accesses the intermediary's Web site hosted on strawman server 230. Prior to using the services provided by the intermediary, a consumer needs to establish an account with the intermediary and become a subscriber. An account is necessary for the intermediary to attribute each transaction conducted through the intermediary to the appropriate subscriber and process the transaction (e.g., shipping, billing) accordingly. Thus, within the scope of the present invention, a customer-subscriber establishes an ongoing relationship with the intermediary in lieu of having to set up numerous accounts with different e-vendors. Once a subscriber account has been established, the consumer-subscriber can conveniently transact business with different e-vendors anonymously, with the intermediary acting on the consumer-subscriber's behalf in each transaction.

In accordance with one embodiment of the present invention, when a new user visits the intermediary's Web site to subscribe to the intermediary's services, the user is prompted to provide requisite personal information, such as the user's name and address, so that an account profile can be created for the user. Optionally, if the new subscriber so desires, additional information such as credit card information and personal preferences can also be stored within the customer's profile so that the customer does not need to enter the

information every time a transaction is being entered into. In a currently preferred embodiment, user account profiles are stored in database 233 of strawman server 230.

5 Referring again to Figure 2, in a currently preferred embodiment, a software module 224 is downloaded from strawman server 230 to client 220 as part of the user registration process. In an alternative embodiment, software module 224 can be provided to the consumer on a computer readable medium (e.g., CD-ROM, diskette) instead of being downloaded over the Internet 280. In

10 yet another embodiment, software module 224 (e.g., program code written in a scripting language) is downloaded dynamically from strawman server 230 to client system 220 each time the consumer-subscriber logs into his/her account at the intermediary's Web site. In accordance with the present invention, software module 224 runs on client system 220 and serves to communicate

15 actions of the consumer-subscriber to strawman server 230 in a given transaction so that the intermediary's services can be properly rendered if the consumer-subscriber so chooses.

More specifically, once a consumer becomes a subscriber to the

20 intermediary's services, the consumer-subscriber can decide on a transaction-by-transaction basis whether to make use of the services or not in any given transaction. Occasionally, the consumer-subscriber may decide that anonymity is not critical in a particular transaction. In that case, the consumer-subscriber would simply engage in the transaction directly with the e-vendor without going

through the intermediary. In such transactions, strawman server 230 is not involved and software module 224 needs not be active on client system 220.

On the other hand, when the consumer-subscriber wants to transact business anonymously through the intermediary, then in one embodiment of the present invention, the consumer-subscriber would launch software module 224 on client system 220 before initiating the desired transaction. In another embodiment, software module 224 is launched automatically when the consumer-subscriber starts the browser program on client system 220. Once it is up and running on client system 220, software module 224 works in conjunction with client software 221 to communicate with strawman server 230 in accordance with one embodiment of the present invention. Stated differently, software module 224 and client software 221 together generate and present the user interface (UI) 320 (described below with reference to Figures 3A, 3B, 3C and 3D) of the present invention.

Figures 3A, 3B, 3C and 3D are diagrams illustrating exemplary screen shots as observed by a consumer-subscriber during various stages of a transaction with a vendor through an intermediary in accordance with one embodiment of the present invention. Referring now to Figure 3A, in one embodiment of the present invention, a button 301 is visible on the display (e.g., display device 118) of client system 220 when software module 224 is running. The consumer-subscriber can at any time click on button 301 to log into his/her account with the intermediary. In a currently preferred embodiment, when the consumer-subscriber clicks on button 301, the consumer-subscriber is

prompted to enter his/her user name and password for authentication purposes. As described above, the consumer-subscriber has completion discretion as to whether to use the intermediary's services or not for a particular transaction. Thus, if the consumer-subscriber decides not to use the services, there is no
5 need to log into his/her account with the intermediary in accordance with the present invention. Under those circumstances, the consumer-subscriber proceeds to perform the desired transaction directly with the e-vendor at its Web site without the involvement of the intermediary, as if the consumer-subscriber has never signed up for the services.

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Referring now to Figure 3B, when the consumer-subscriber is logged into his/her account, in a currently preferred embodiment, software module 224 launches a user interface (UI) 320 to facilitate anonymous transaction(s) based upon the consumer-subscriber's actions as described below. Included in UI
15 320 of this embodiment are buttons 321, 322, 323, 324 and 325 as well as an icon 328. More specifically, in this embodiment, button 321 is labeled "My Account" and when clicked brings up within UI 320 a "My Account" screen, which is described with reference to Figure 3D below. When button 322, labeled "Favorites" in this embodiment, is clicked, a list of the consumer-
20 subscriber's favorite Web sites for electronic transactions (e.g., based on past transactions and/or user entries) is displayed within UI 320, allowing the consumer-subscriber to access any of those sites by a simple click.

Moreover, with reference still to Figure 3B, clicking button 323 lets the
25 consumer-subscriber bring up the "Shopping Cart" screen. In a currently

preferred embodiment, the "Shopping Cart" screen tabulates in a highly readable fashion those item(s) with which transactions are pending (e.g., products which have been selected by the consumer-subscriber for purchase but the transaction has yet to be finalized because the consumer-subscriber is

5 still browsing and/or shopping for additional item(s)) so that the consumer-subscriber can easily review the selected item(s) and make any changes as necessary prior to submitting the transaction for processing.

With reference still to Figure 3B, button 324 is a "Browse" button that, in

10 one embodiment, takes the consumer-subscriber directly to the last Web site visited while logged on to his/her account. This enables the consumer-subscriber to conveniently return to the place where he/she left off to complete a transaction that was interrupted or otherwise postponed. To log off from his/her account, the consumer-subscriber clicks on "Logoff" button 325. In one

15 embodiment, the consumer-subscriber is prompted to confirm that he/she desires to log off. Once logged off, the consumer-subscriber needs to re-login in order to use the intermediary's services. Furthermore, in this embodiment, icon 328 is depicted as a hand-shaped object within UI 320. Clicking on icon 328 puts the consumer-subscriber in a so-called "grab" mode, in which the

20 consumer-subscriber can easily select items presented at a e-vendor's Web site, described below with reference to Figure 3C.

It should be appreciated that the specific features of UI 320 described herein with respect to the instant embodiment are merely illustrative and are not

25 intended to limit the present invention thereto. Rather, certain features can be

omitted and/or additional features not specifically mentioned herein can be included without departing from the scope and spirit of the present invention.

Moreover, in one embodiment, a subset of the features within UI 320 can be hidden from view or disabled under the control of software module 224

5 whenever those features are not applicable under the circumstances (e.g., "Logoff" button 325 is not displayed when the consumer-subscriber is not logged on) to present a clean, uncluttered look to the consumer-subscriber and to facilitate easy navigation.

10 Referring next to Figure 3C, once the consumer-subscriber is logged into his/her account, in a currently preferred embodiment, the consumer-subscriber can proceed to browse item(s) on a e-vendor's Web site in the usual fashion (e.g., by clicking on different hyperlinks). In this embodiment, when the consumer-subscriber finds a particular item of interest at the e-vendor's Web

15 site (e.g., a product that the consumer-subscriber wants to purchase from the e-vendor), the consumer-subscriber activates the "grab" mode by clicking on icon 328. In one embodiment, upon such clicking of icon 328, the pointer of the pointing device changes from its normal form (e.g., an arrow) to a hand shape pointer 338 resembling icon 328, whereupon the consumer-subscriber can

20 indicate his/her selection with pointer 338. In a currently preferred embodiment, the consumer-subscriber swipes pointer 338 across the hyperlink (e.g., product icon 333a, text link 333b) representing the desired item to indicate its selection. In another embodiment, the consumer-subscriber employs a drag-and-drop action (e.g., click and hold pointer 338 on the item of interest, move pointer 338

25 to a designated location within UI 320, such as a shopping cart icon (not shown

in Figure 3B) and then release the item thereupon) to indicate the desired selection. Other embodiments are also possible wherein the consumer-subscriber signifies his/her selection of the item of interest by way of other combinations of user input (e.g., clicks and movements of a mouse, text entry
5 via a keyboard).

Significantly, within the scope of the present invention, the information of the selection (e.g., what item has been selected by the consumer-subscriber and at which e-vendor Web site) is transmitted to strawman server 230 through
10 the consumer-subscriber's client software 221 and software module 224 in a transparent manner. However, the e-vendor remains totally uninformed as to the identity of the consumer-subscriber because no information about the consumer-subscriber is transmitted to the e-vendor. Moreover, in one embodiment, information about the pending transaction is not yet conveyed to
15 the e-vendor thus far.

Once strawman server 230 has received the selection information, strawman server 230 initiates a transaction with the e-vendor on behalf of the consumer-subscriber based on the selection information. Importantly, within the
20 scope of the present invention, strawman server 230 provides to the e-vendor information about the intermediary for purposes of conducting the transaction (e.g., in a purchase transaction, the product is shipped to the intermediary and billed to the intermediary's account as if the intermediary is the end-user) without ever revealing any information about the consumer-subscriber, who is
25 the real party to the transaction behind the scene, to the e-vendor. As such, the

present invention completely shields the identity and transaction history of the consumer-subscriber from the e-vendor, thus preserving the anonymity and privacy of the consumer-subscriber in each and every transaction conducted via the intermediary.

5

In one embodiment of the present invention, the intermediary establishes accounts in its name with numerous e-vendors and furnishes a list of all those e-vendors with whom it has such accounts to its subscribers. The subscribers can then transaction business with any of the e-vendors on that list through the
10 intermediary. In this embodiment, the intermediary collects and indexes multiple e-vendors under a single Web site so that consumers can comparison shop and/or choose from among different e-vendors all from the same site, thus offering added convenience and flexibility to savvy on-line consumers.

15 In another embodiment, the consumer-subscriber is able to transact business with any e-vendor of his/her choice through the intermediary. In this embodiment, once the consumer-subscriber's selection is received at strawman server 230, it determines whether an established account already exists between the intermediary and the e-vendor chosen by the consumer-
20 subscriber. If an account is already in existence, strawman server 230 simply logs into the account and conduct the transaction based on the selection information. On the other hand, if there is no established account relationship between the intermediary and the e-vendor of choice, strawman server 230 proceeds to set up an account with the e-vendor in the name of the

intermediary, and then the transaction as requested by the consumer-subscriber is conducted using the newly established account.

Once again, it is important to note that in all embodiments of the present

- 5 invention the e-vendor is merely aware that it is transacting business with the intermediary but is at all times without any knowledge as to who the ultimate consumer is. By acting in a capacity similar to that of an escrow agent but in addition shielding the identity of the consumer-subscriber from the e-vendor, the intermediary advantageously protects the anonymity and privacy of the
- 10 consumer-subscriber in each and every transaction conducted in accordance with the present invention.

With reference next to Figure 3D, in one embodiment, a "My Account" screen appears within UI 320 when the consumer-subscriber clicks on "My Account" button 321. In this embodiment, the "My Account" screen displays within UI 320 those transactions that have been consummated through the account to date. In one embodiment, "My Account" screen of UI 320 includes an "Account Balance" button 341 which, when clicked, brings up the outstanding balance on the consumer-subscriber's account. Moreover, in one embodiment, the consumer-subscriber can specify a period such that transactions entered into during that period are displayed. Thus, as shown in Figure 3D, pressing "Current Month Summary" button 342 would limit the displayed entries to those transactions that have occurred during the current month (e.g., the current billing cycle or statement period). Likewise, clicking "Past Summaries" button

343 would allow the consumer-subscriber to bring up older transactions in a summary format.

Furthermore, referring still to Figure 3D, in one embodiment, the

5 consumer-subscriber can sort the displayed entries using various criteria (e.g., by date, by e-vendor, by transaction amount, by transaction type, etc.) so that the consumer-subscriber can easily review the selected item(s) and make any changes as necessary prior to submitting the transaction for processing.

Additionally, in one embodiment, the consumer-subscriber can click on a

10 particular entry displayed within the "My Account" screen to bring up tracking information (e.g., whether the item has been shipped in a purchase transaction) for the corresponding transaction. It is appreciated that these and other account maintenance features provided by the present invention beneficially afford the consumer-subscriber a centralized, consolidated view of all the electronic

15 transactions conducted through his/her account with the intermediary, thus eliminating the inconvenience and burden of having to keep track of activities with each and every vendor separately.

Moreover, in a currently preferred embodiment, even after the consumer-

20 subscriber has received shipment of the ordered item(s) from the intermediary in a purchase transaction, additional services are available to the consumer-subscriber with respect to those items. More particularly, the consumer-subscriber may want to return the item, to exchange the item for other merchandise, to have the item sent in for repairs, to submit a warranty card or a

25 rebate request, or to request other post-delivery services regarding the item(s)

ordered through the intermediary using the subscriber's account. To that end, the consumer-subscriber can submit such post-delivery requests to the vendor or manufacturer through the intermediary. Importantly, the consumer-subscriber again is able to benefit from the advantages offered by the intermediary's

- 5 services, namely, to remain anonymous with respect to the vendors and manufacturers, who are uninformed as to the identity of the ultimate consumer but are merely aware that business is being transacted with the intermediary.

Referring next to Figure 4, a flow diagram illustrating steps for facilitating

- 10 a transaction between a consumer-subscriber and a e-vendor through an intermediary in accordance with one embodiment of the present invention is shown. In step 410, personal information of the subscriber is received by the intermediary for establishing a user account with the intermediary as described above.

15

Referring still to Figure 4, in step 420, the personal information received in step 410 is stored by the intermediary for subsequent access. In one embodiment, the information is stored in database 233 of strawman server 230.

In a preferred embodiment, the information is stored in a highly secured fashion

- 20 and access thereto is subject to special security measures so that the information is safely protected from unauthorized access or tampering by malicious hackers.

With reference still to Figure 4, in step 430, a request to access the user

- 25 account is received at the intermediary from the subscriber, upon which the

subscriber's identity is verified by the intermediary against the personal information as stored in step 420. In a currently preferred embodiment, step 430 is performed when a consumer-subscriber attempts to log into his/her account.

5

Referring again to Figure 4, in step 440, the intermediary enters into a transaction with the vendor on behalf of the subscriber according to instruction given by the subscriber. In a currently preferred embodiment, the subscriber specifies what action is to be performed by the intermediary on his/her behalf

10 (e.g., what item to purchase at a e-vendor Web site) through UI 320 as described above with reference to Figure 3C.

With reference again to Figure 4, in step 450, upon the completion of the transaction, the subscriber is notified as such. It should be appreciated that the

15 notification can be implemented in various ways within the scope of the present invention. In one embodiment, a confirmation message is displayed on the screen within UI 320 immediately after completion of the transaction while the consumer-subscriber is still logged on to his/her account. In another embodiment, an electronic mail (e-mail) message is sent to the consumer. In

20 still another embodiment, a confirmation notice is physically sent to the consumer's address on record. Importantly, in whatever way the consumer-subscriber and the intermediary communicate as it relates to the transaction, in accordance with the present invention, the transaction is completed without disclosing the subscriber's personal information to the vendor, as has been

25 described in detail above.

Referring still to Figure 4, in optional step 455, an account activity statement is prepared for the subscriber, which statement includes information about transactions completed through the user account during a statement period. In a currently preferred embodiment, such a statement is presented to the subscriber via UI 320 upon request, as described above with reference to Figure 3D. Alternatively, in another embodiment, a statement is prepared, as a paper copy, in a periodic fashion (e.g., monthly) and sent to the subscriber.

10 Referring again to Figure 4, in optional step 465, an item ordered from the vendor on behalf of the subscriber pursuant to the subscriber's instruction is received at the intermediary. In accordance with one embodiment of the present invention, the subscriber is notified upon the receipt of the ordered item, and the item is held at the intermediary awaiting pick-up by the subscriber.

15 Alternatively, in another embodiment, the item is simply shipped to the subscriber upon its receipt at the intermediary. In optional step 475, the subscriber is billed for services rendered by the intermediary. In one embodiment, the intermediary can provide financing (e.g., credit purchase) to the consumer-subscriber, so that the amount billed to the consumer-subscriber

20 may include finance charges and interests in addition to actual total purchase price of items ordered, account fees, and other agreed upon service charges. Once again, the consolidated billing and other account maintenance features provided by the present invention advantageously allow the consumer-subscriber to manage all the electronic transactions in a centralized, organized

25 fashion through his/her account with the intermediary, thus ridding the

inconvenience and burden of disjointed account maintenance that inevitably results from having to deal with records from numerous vendors.

With reference again to Figure 4, in optional step 485, a post-delivery

5 request regarding the ordered item is received at the intermediary from the subscriber. Then, in optional step 495, the post-delivery request is handled by the intermediary on behalf of the subscriber. As described previously, the post-delivery request can be a return request, a repair request, an exchange request, a warranty submission request, a rebate request, or any other request that

10 concerns the item ordered through the intermediary using the subscriber's account. By further providing these value-added services to the consumer, the intermediary can offer a superior customer experience and premier services to its subscribers, setting itself apart from the competition of pure merchandising and/or catalog Web sites. A method for facilitating a transaction between a

15 consumer-subscriber and a e-vendor through an intermediary in accordance with embodiments of the present invention has thus been described.

Significantly, since the method of the present invention as described is highly configurable, it can easily be tailored for use with a wide spectrum of e-commerce Web sites which have different layouts and navigation paradigms.

20 Moreover, the consumer-subscriber does not have to get involved with the underlying aspects of the present invention. More specifically, embodiments of the present invention (e.g., software module 224 of Figure 2) can be automatically configured so that it adapts to the characteristics of a Web site. As

such, the present invention provides a ubiquitous solution for the subscribing consumer.

The foregoing description thus clearly demonstrates that intermediary services implemented in accordance with embodiments of the present invention are highly advantageous to the consumer-subscriber. More particularly, by subscribing to the intermediary services described herein, the consumer-subscriber is not only able to remain anonymous with respect to the e-vendors with whom the consumer-subscriber transact business, but the consumer-subscriber is also able to eliminate the need to establish and maintain multiple user names and passwords with the individual e-vendors. Additionally, the consumer-subscriber is able to avoid the hassle of having to deal with records from numerous vendors. Instead, the consumer-subscriber enjoys a centralized, consolidated view of all the electronic transactions conducted through his/her account with the intermediary, thus fully avoiding the inconvenience and burden of having to keep track of activities with each and every vendor separately. This greatly simplifies the life of the consumer-subscriber and enhances the electronic transaction experience. Therefore, embodiments of the present invention promote broad consumer acceptance and participation in electronic transactions because of the added assurance that their personal information are better protected and the added convenience of transactions management. Moreover, since the intermediary provides value-added services that are highly desirable to on-line consumers who are increasingly concerned about their privacy and anonymity, the present

invention also provides the framework for a viable and profitable business model in the fast evolving environment of e-commerce.

Although certain embodiments of the present invention as described

5 herein pertains primarily to on-line purchases, it is appreciated that many other advantageous applications are possible within the scope of the present invention. For example, the present invention can be advantageously applied to conduct on-line financial transactions, so that a financial institution, as a lender, for instance, needs not and does not know the identity of its borrower as

10 long as the lender can be assured through the intermediary that the borrower meets certain credit-worthiness criteria as prescribed by the lender. In another embodiment, the present invention can be advantageously used in anonymous on-line exchanges of all forms of digital media. Therefore, the present invention enables numerous possibilities in a new paradigm wherein electronic

15 transactions can be conducted anonymously among transacting parties with the aid of an intermediary or "strawman" in accordance with the present invention. It should be clear to a person of ordinary skill in the art, having read the description of embodiments of the present invention herein, that other applications and embodiments not expressly described herein are also

20 possible without departing from the scope and spirit of the present invention.

The preferred embodiment of the present invention, a system and method for implementing an intermediary to preserve user privacy and anonymity in electronic transactions, is thus described. While the present

25 invention has been described in particular embodiments, it should be

appreciated that the present invention should not be construed as limited by such embodiments, but rather construed according to the below claims.

00000000000000000000000000000000

CLAIMS

5 What is claimed is:

1. A computer implemented method for facilitating a transaction between a subscriber and a vendor through an intermediary, said method comprising the steps of:
 - 10 a) receiving at said intermediary personal information from said subscriber to establish a user account;
 - b) storing said personal information for subsequent access;
 - c) receiving at said intermediary a request from said subscriber to access said user account, whereupon said subscriber's identity is verified by
 - 15 said intermediary against said personal information;
 - d) responsive to successful verification of said subscriber's identity, said intermediary entering into a transaction with said vendor on behalf of said subscriber pursuant to said subscriber's instruction; and
 - e) notifying said subscriber upon completion of said transaction,
- 20 wherein said transaction is completed without disclosing said personal information about said subscriber to said vendor.

2. The method as recited in Claim 1 further comprising the step of preparing an account activity statement for said subscriber, wherein said
25 account activity statement includes information about transactions completed through said user account during a statement period.

3. The method as recited in Claim 1 further comprising the steps of:
f) receiving at said intermediary an item ordered from said vendor on
behalf of said subscriber pursuant to said subscriber's instruction; and
g) billing said subscriber for services rendered.

5

4. The method as recited in Claim 3 further comprising the steps of
notifying said subscriber upon receipt of said item; and holding said item for
pick-up by said subscriber.

10

5. The method as recited in Claim 3 further comprising the step of
shipping said item to said subscriber.

15

6. The method as recited in Claim 3 further comprising the steps of
receiving at said intermediary a post-delivery request from said subscriber, said
post-delivery request relating to said item; and handling said post-delivery
request on behalf of said subscriber.

20

7. The method as recited in Claim 6 wherein said post-delivery
request is selected from the group consisting of a return request, a repair
request, an exchange request, a warranty submission request, and a rebate
request.

25

8. The method as recited in Claim 1 further comprising the steps of
maintaining at said intermediary rating information about said vendor; and
providing said rating information to said subscriber.

9. The method as recited in Claim 1 wherein said intermediary provides purchase financing to said subscriber in said transaction.

10. The method as recited in Claim 1 wherein said transaction is
5 conducted over the Internet.

11. A computer system comprising a processor coupled to a bus and a
memory unit coupled to said bus, said memory unit having stored therein
instructions that when executed implement a method for facilitating a
10 transaction between a subscriber and a vendor through an intermediary, said
method comprising the steps of:

- a) receiving at said intermediary personal information from said subscriber to establish a user account;
- b) storing said personal information for subsequent access;
- 15 c) receiving at said intermediary a request from said subscriber to access said user account, whereupon said subscriber's identity is verified by said intermediary against said personal information;
- d) responsive to successful verification of said subscriber's identity, said intermediary entering into a transaction with said vendor on behalf of said
20 subscriber pursuant to said subscriber's instruction; and
- e) notifying said subscriber upon completion of said transaction, wherein said transaction is completed without disclosing said personal information about said subscriber to said vendor.

25 12. The computer system as recited in Claim 11 wherein said method further comprises the step of preparing an account activity statement for said

subscriber, said account activity statement including information about transactions completed through said user account during a statement period.

13. The computer system as recited in Claim 11 wherein said method
5 further comprises the steps of:

- f) receiving at said intermediary an item ordered from said vendor on behalf of said subscriber pursuant to said subscriber's instruction; and
- g) billing said subscriber for services rendered.

10 14. The computer system as recited in Claim 13 wherein said method further comprises the steps of notifying said subscriber upon receipt of said item; and holding said item for pick-up by said subscriber.

15 15. The computer system as recited in Claim 13 wherein said method further comprises the step of shipping said item to said subscriber.

16. The computer system as recited in Claim 13 wherein said method further comprises the steps of receiving at said intermediary a post-delivery request from said subscriber, said post-delivery request relating to said item;
20 and handling said post-delivery request on behalf of said subscriber.

17. The computer system as recited in Claim 16 wherein said post-delivery request is selected from the group consisting of a return request, a repair request, an exchange request, a warranty submission request, and a
25 rebate request.

18. The computer system as recited in Claim 11 wherein said method further comprises the steps of maintaining at said intermediary rating information about said vendor; and providing said rating information to said subscriber.

5

19. The computer system as recited in Claim 11 wherein said intermediary provides purchase financing to said subscriber in said transaction.

20. The computer system as recited in Claim 11 wherein said
10 transaction is conducted over the Internet.

21. A computer system for facilitating a transaction between a subscriber and a vendor through an intermediary, said computer system comprising:

15 input means for receiving at said intermediary personal information from said subscriber to establish a user account;

storage means for storing said personal information for subsequent access;

20 said input means also for receiving at said intermediary a request from said subscriber to access said user account, whereupon said subscriber's identity is verified by said intermediary against said personal information;

means for enabling said intermediary to enter into a transaction with said vendor on behalf of said subscriber pursuant to said subscriber's instruction responsive to successful verification of said subscriber's identity; and

25 notification means for notifying said subscriber upon completion of said transaction, wherein said transaction is completed without disclosing said personal information about said subscriber to said vendor.

22. The computer system as recited in Claim 21 further comprising
means for preparing an account activity statement for said subscriber, wherein
said account activity statement includes information about transactions
5 completed through said user account during a statement period.

23. The computer system as recited in Claim 21 wherein said input
means is also for receiving at said intermediary an item ordered from said
vendor on behalf of said subscriber pursuant to said subscriber's instruction,
10 and wherein said computer system further comprises means for billing said
subscriber for services rendered.

24. The computer system as recited in Claim 23 wherein said
notification means is also for notifying said subscriber upon receipt of said item,
15 and wherein said computer system further comprises means for holding said
item for pick-up by said subscriber.

25. The computer system as recited in Claim 23 further comprising
shipping means for shipping said item to said subscriber.

20

26. The computer system as recited in Claim 23 wherein said input
means is also for receiving at said intermediary a post-delivery request from
said subscriber, said post-delivery request relating to said item, and wherein
said computer system further comprises means for handling said post-delivery
25 request on behalf of said subscriber.

27. The computer system as recited in Claim 26 wherein said post-delivery request is selected from the group consisting of a return request, a repair request, an exchange request, a warranty submission request, and a rebate request.

5

28. The computer system as recited in Claim 21 wherein said transaction is conducted over the Internet.

INTERNET STRAWMAN
AND USER INTERFACE THEREFOR

5 ABSTRACT OF THE INVENTION

A system and method for implementing an intermediary to preserve user privacy and anonymity in electronic transactions. In one embodiment, a computer implemented method for facilitating a transaction between a subscriber and a vendor through an intermediary is provided. In this 10 embodiment, the method comprises the step of receiving at the intermediary personal information from the subscriber to establish a user account. The method also comprises the step of storing the personal information for subsequent access. The method further comprises the step of receiving a request from the subscriber to access the user account, upon which the 15 subscriber's identity is verified by the intermediary against the personal information. The method also comprises the step of the intermediary entering into a transaction with the vendor on behalf of the subscriber based on the subscriber's instruction once the subscriber's identity is successfully verified. The method further comprises the step of notifying the subscriber upon 20 completion of the transaction. Importantly, the transaction is completed without disclosing the subscriber's personal information to the vendor. As such, the consumer remains anonymous with respect to the vendor.

Figure 1

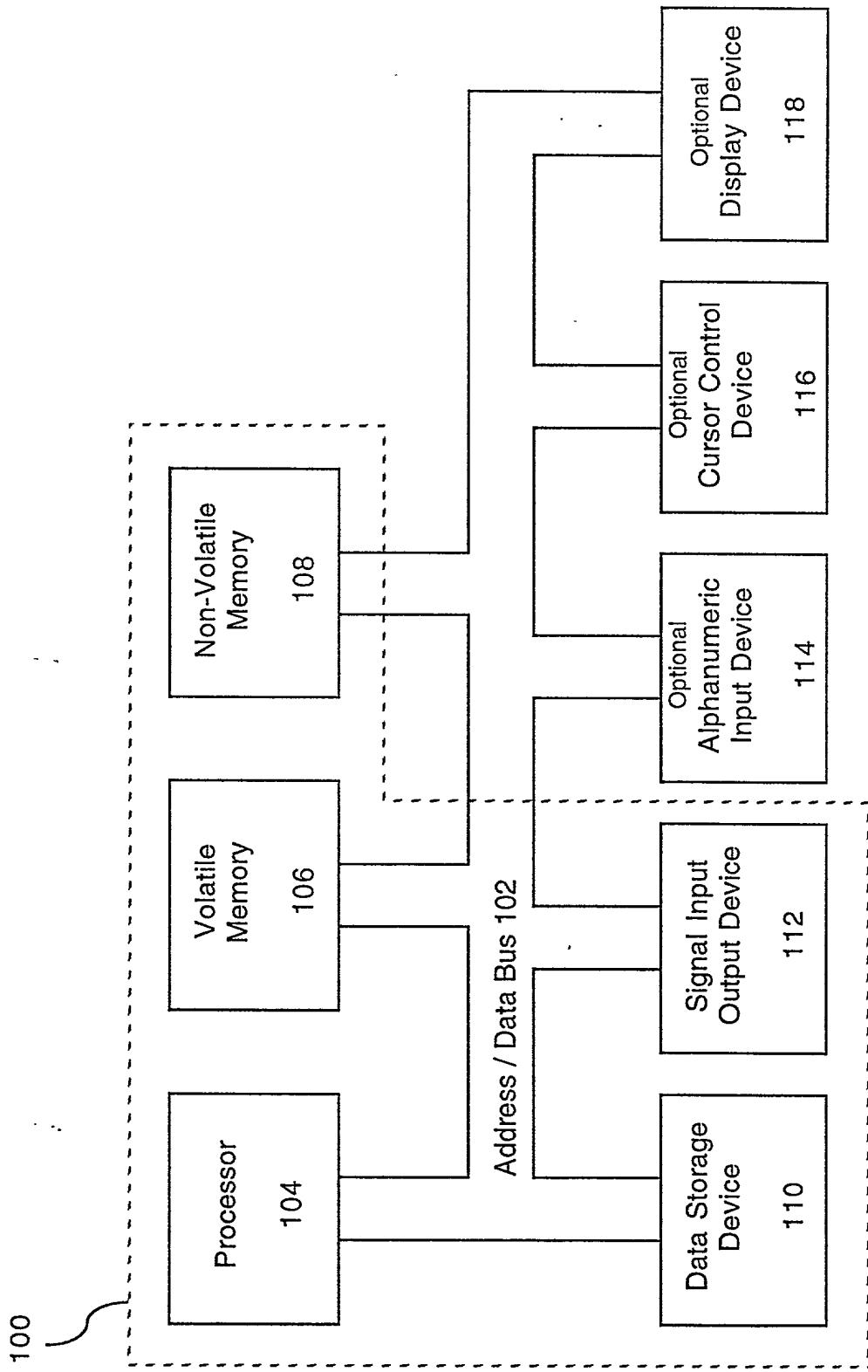
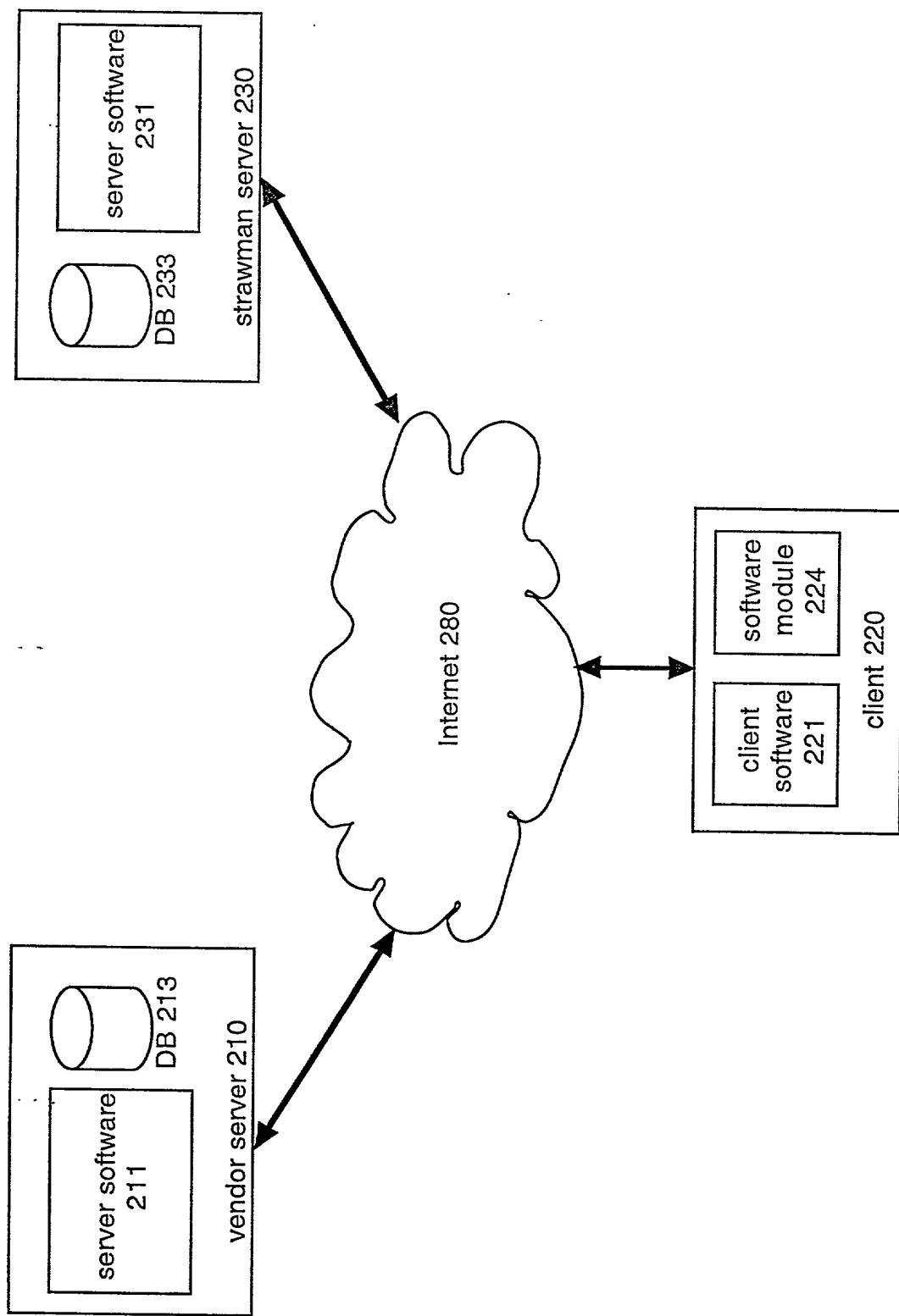


Figure 2



http://www.yatoo.com

http://www.yatoo.com

30
STRATEGIAN

Figure 36

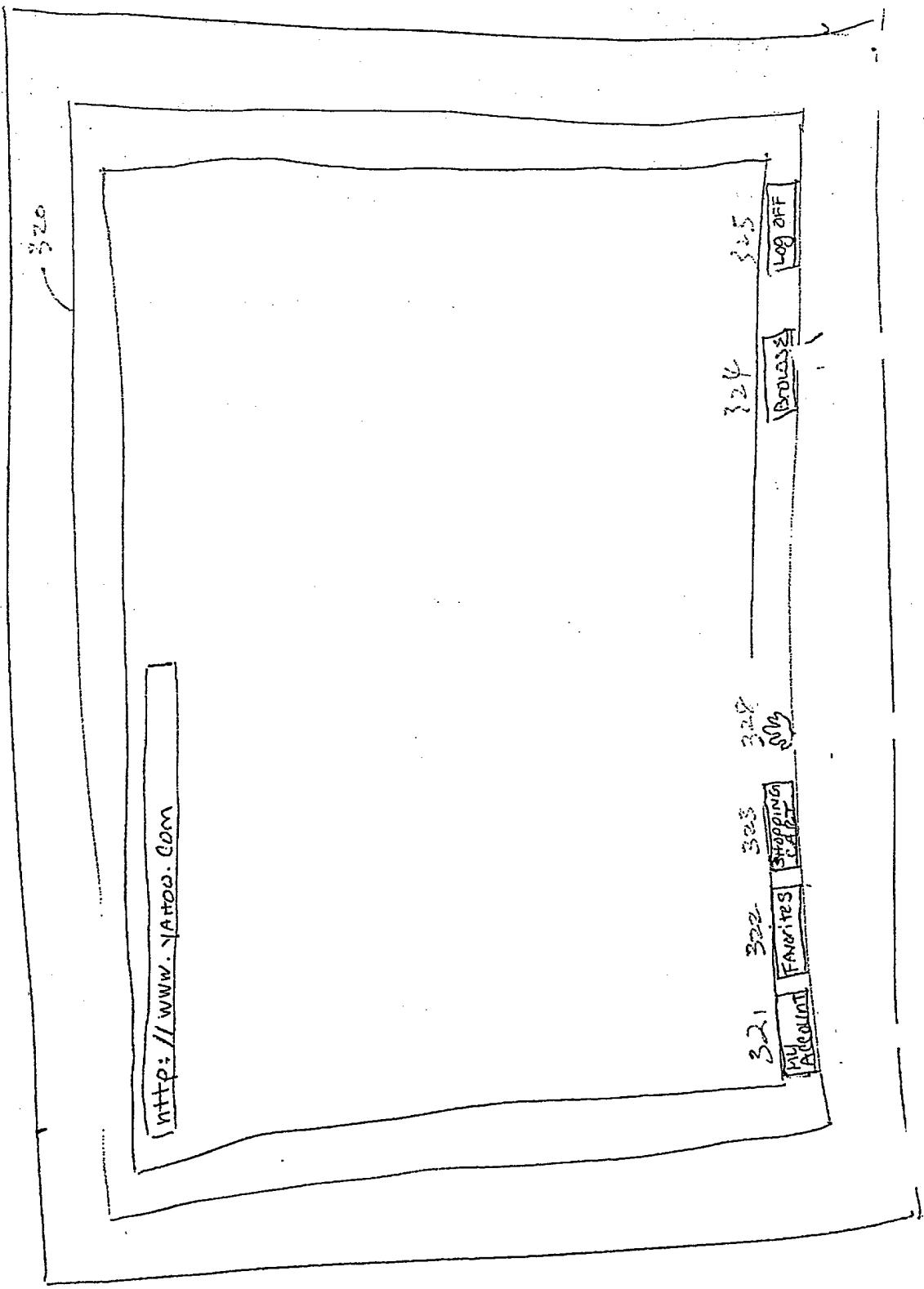


Figure 3B

320 321 322 323 324 325

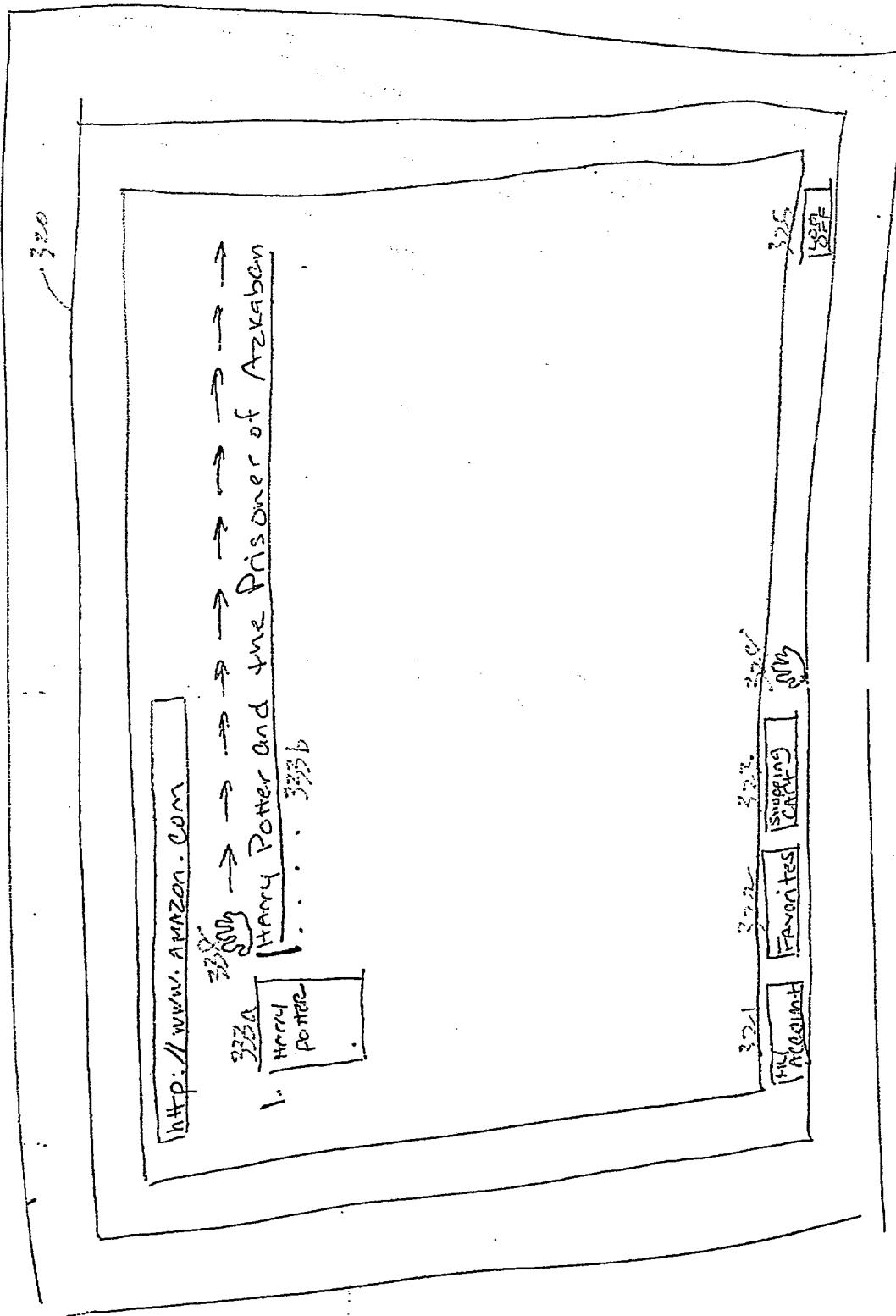
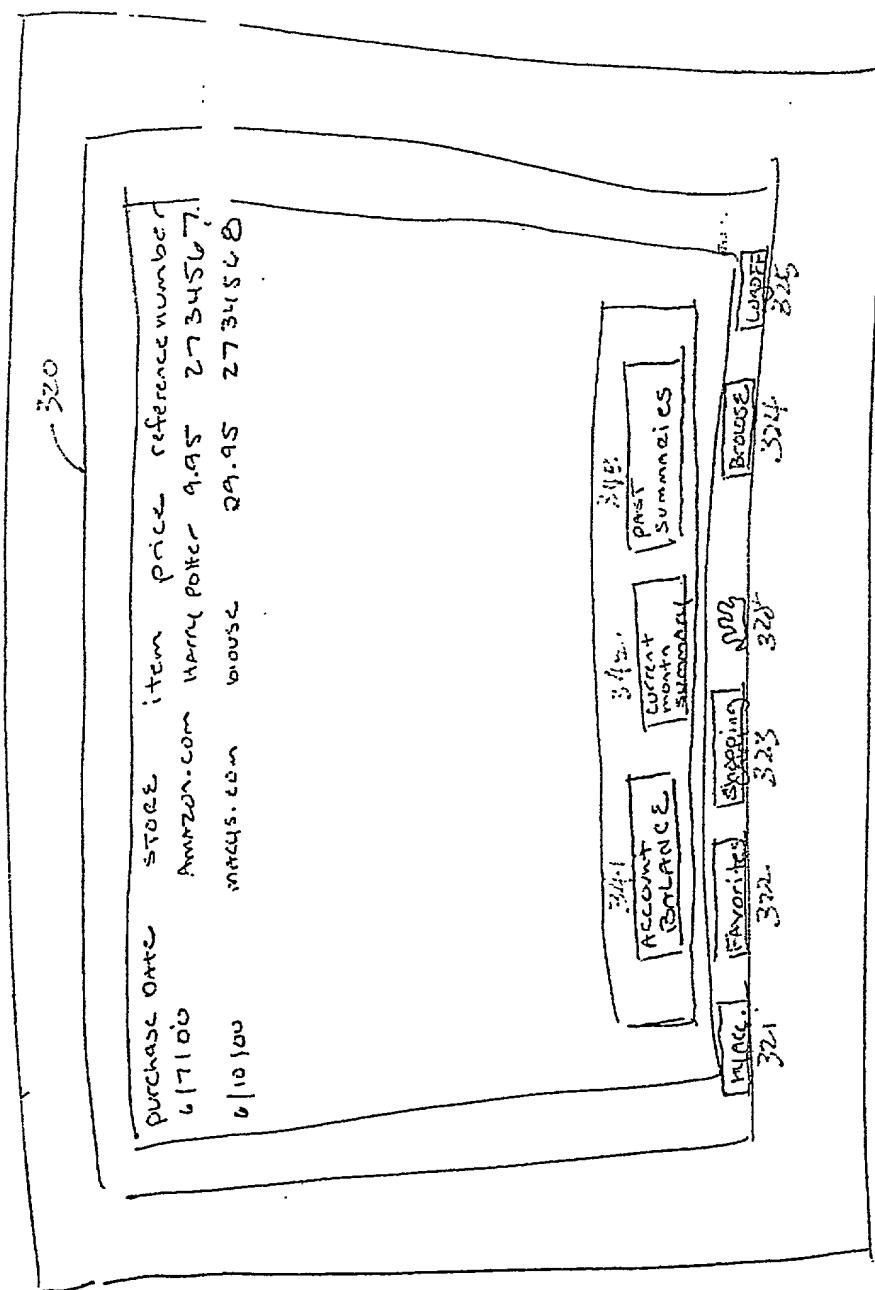


Figure 3D



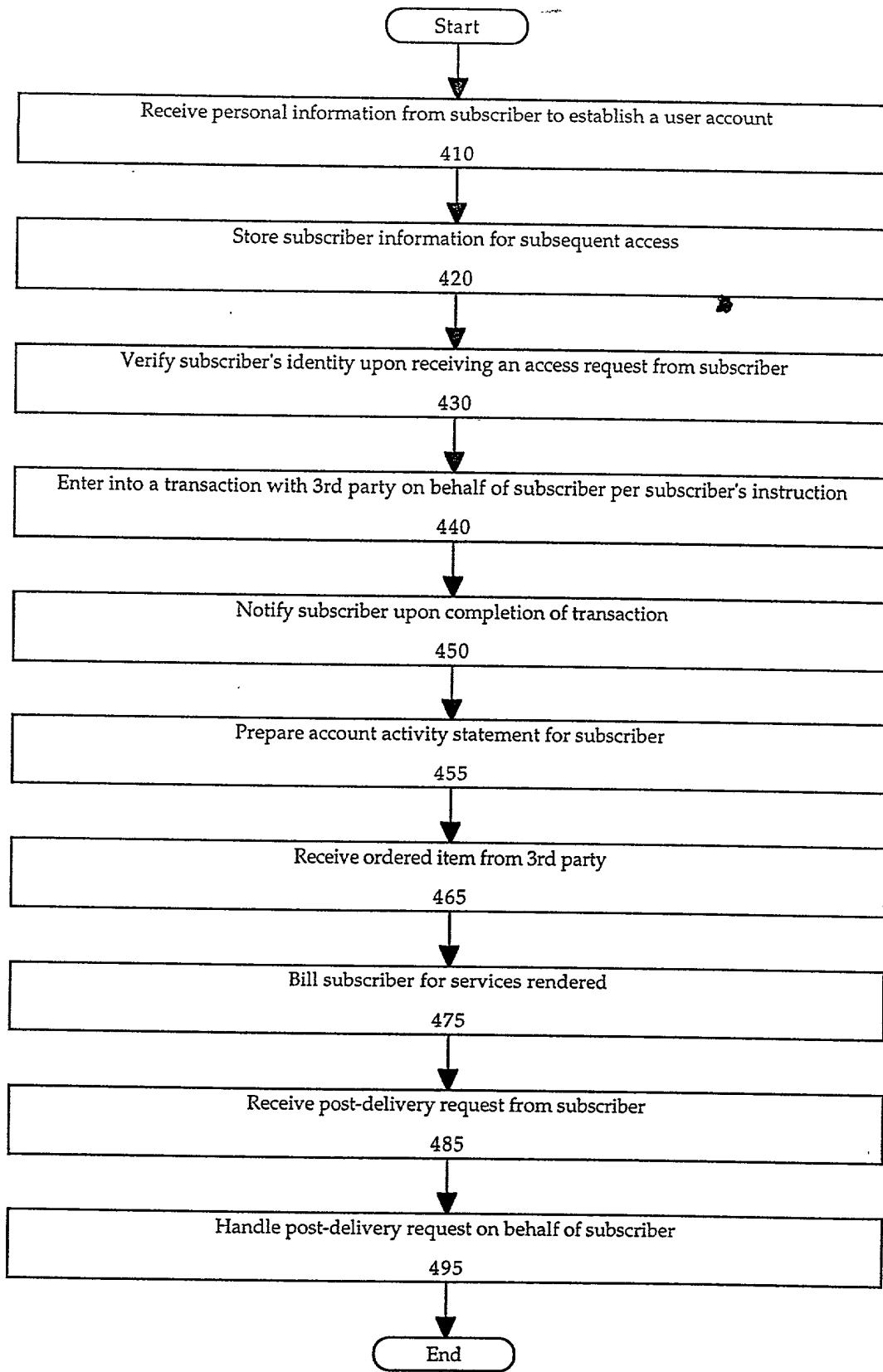


Figure 4

Declaration and Power of Attorney for a Patent Application

Declaration

As below named inventor, I hereby declare that my residence post office address, and citizenship are as stated below my name. Further, I hereby declare that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

INTERNET STRAWMAN AND USER INTERFACE THEREFOR

the specification of which:

is attached hereto, or
..... was filed on as application serial no. : and
..... was amended on

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above; and

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

Foreign Priority Claim

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Number	Country	Date Filed	Priority Claimed
.....	yes no
.....	yes no

U.S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 and 199(e) of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Filing Date	Status (patented/pending/abandoned)
.....
.....

Power of Attorney

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent Trademark Office connected therewith.

James P. Hao	Registration No.: 36,398
Anthony C. Murabito	Registration No.: 35,295
John P. Wagner	Registration No.: 35,398
Glenn D. Barnes	Registration No.: 42,293
Rick G. Brewster	Registration No.: 35,077
Thomas M. Catale	Registration No.: 46,434
Jose S. Garcia	Registration No.: 43,628
Kenneth N. Glass	Registration No.: 42,587
Lin C. Hsu	Registration No.: 46,315
Patrick W. Ma	Registration No.: 44,215
Ronald M. Pomerenke	Registration No.: 43,009
John F. Ryan	Registration No.: P-47,050
William A. Zarbis	Registration No.: 46,120

Send Correspondence to:

WAGNER, MURABITO & HAO LLP
 Two North Market Street
 Third Floor
 San Jose, California 95113
 (408) 938-9060

Signatures

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor: Gina C. Eubanks

Inventor's Signature Gina C. Eubanks Date 7/9/11/00

Residence San Diego, CA Citizenship USA

(City) San Diego (State) CA

P.O. Address 5056 Long Branch Avenue, San Diego, CA 92107